PATENT COOPERATION TREATY PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference F-867-P		FOR FURTHER A	FOR FURTHER ACTION See Form PCT/IPEA/416		
1	International application No. International filing PCT/JP2004/010976 22.07.2004		International filing date 22.07.2004	(day/month/year)	Priority date (day/month/year) 23.07.2003)
	mational Patent Clas 3C18/31, C23C1		national classification and I	PC		
	licant YOTA JIDOSHA	KABUSHIKI K	(AISHA et al.			
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2.	This REPORT c	onsists of a total	of 8 sheets, including t	his cover sheet.		
3.	This report is als	so accompanied	by ANNEXES, comprisi	ng:		
			to the International Bure	•		
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	sequence	e listing and/or ta	<i>Bureau only)</i> a total of (il bles related thereto, in c e Listing (see Section 80	computer readable for	per of electronic carrier(s)) , c m only, as indicated in the Sup e Instructions).	ontaining a plemental
4.	This report conta	ains indications r	elating to the following it	ems:		
	☑ Box No. I	Basis of the op	inion			
	☐ Box No. II	Priority				
	☐ Box No. III	Non-establishn	nent of opinion with rega	ard to novelty, inventive	e step and industrial applicabili	ity
	☐ Box No. IV	Lack of unity o	f invention	,		
	⊠ Box No. V	Reasoned state applicability; ci	ement under Article 35(2 tations and explanations	 with regard to novel supporting such state 	ty, inventive step or industrial ement	
	⊠ Box No. VI	Certain docum				
	☐ Box No. VII		in the international app			
	□ Box No. VIII	Certain observ	ations on the internation	al application		
Date	Date of submission of the demand		Date of completion of t	his report		
11.0	11.05.2005			19.10.2005		
Nam	Name and mailing address of the International			Authorized Officer		selves Petentemo
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			356 enmu d	Ramos Flores, C	φ, 1914 γ.	O)) Indiana
		9 2399 - 4465	осо врим и	Telephone No. +49 89	2399-	Condonne soillO.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/010976

_	Box No. I Basis of the report				
1.	With regard to the language, this filed, unless otherwise indicated	h regard to the language , this report is based on the international application in the language in which it weld, unless otherwise indicated under this item.			
	which is the language of a tr	slations from the original language into the following language , anslation furnished for the purposes of:			
	☐ international search (und☐ publication of the internat☐ international preliminary	er Rules 12.3 and 23.1(b)) cional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)			
2.	have been furnished to the recei	ith regard to the elements* of the international application, this report is based on <i>(replacement sheets whi</i> ave been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this port as "originally filed" and are not annexed to this report):			
	Description, Pages				
	1-21	as originally filed			
	Claims, Numbers	•			
	1-5	as originally filed			
	Drawings, Sheets				
	1/2-2/2	as originally filed			
	☐ a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing			
3. [Ited in the cancellation of:			
	☐ the description, pages☐ the claims, Nos.				
	☐ the drawings, sheets/figs☐ the sequence listing (spe	ecify):			
	☐ any table(s) related to se				
4.	☐ This report has been establi had not been made, since they h Supplemental Box (Rule 70.2(c))	shed as if (some of) the amendments annexed to this report and listed below lave been considered to go beyond the disclosure as filed, as indicated in the			
	 □ the description, pages □ the claims, Nos. □ the drawings, sheets/figs □ the sequence listing (specific page) 	ecify):			
	☐ any table(s) related to se				
	+ TE : 1 1:	mo or all of these sheets may be marked "superseded "			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/010976

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-5

1-5

1-5

Inventive step (IS)

Yes: Claims

No: Claims

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rule 70.10) and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: ANONYMOUS: "Polyimide surface modification by ozonlysis" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, vol. 339, no. 37, July 1992 (1992-07), XP007117898 ISSN: 0374-4353
 - D2: EP 0 485 699 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 20 May 1992 (1992-05-20)
 - D3: US 5 803 131 A (IWASA ET AL) 8 September 1998 (1998-09-08)
 - D4: WO 02/088422 A (TOYOTA JIDOSHA KABUSHIKI KAISHA; NAKANISHI,

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D4(a): EP-A-1 380 671 (TOYOTA JIDOSHA KABUSHIKI KAISHA) 14 January

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D5: PATENT ABSTRACTS OF JAPAN vol. 013, no. 302 (C-616), 12 July 1989 (1989-07-12) & JP 01 092377 A (NIPPON OZON KK), 11 April 1989 (1989-04-11)

- 2 Novelty:
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 to 5 is not new in the sense of Article 33(2) PCT. Document D1 refers to a UV/ozone treatment of a polyimide substrate in order to create polar groups (polyamic acid moieties) on the surface which can be subsequently seeded by palladium salt. This method falls within the terms of the procedure specified in claim 4, as is evident from the specific examples in the application. Thus, it can be concluded not only claim 4 but also the resulting product as defined in claim 1 is not new. The same argumentation holds true for claims 2, 3 and 5.
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 to 5 is not new in the sense of Article 33(2) PCT.

Document D2 discloses a method for manufacturing a resin substrate comprising the following steps:

- a pretreatment whereby the substrate is immersed into a bath containing cyanide and oxygen (col. 8, lines 38-57) which yields polar groups on the surface of the substrate;
- seeding the substrate with palladium chloride (col. 9, lines 1-32), which results in a resin-composite layer as claimed in claims 1 to 3 of the present application.
- 2.3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5 is not new in the sense of Article 33(2) PCT. Document D3 discloses the ozone treatment of a substrate (col. 9, lines 8-15, 35-44, 51-54; col. 10, lines 16-18), followed by seeding the substrate (col. 10, lines 10-15 and col. 4, lines 11-32), which yields substrates having a resin-metal composite layer as defined in claims 1-3.
- 2.4 Since document D4(a) is a publication according to Art. 158(3) EPC of the international application D4 it can be considered an accurate english translation of the international application D4.
 - This document discloses (see D4(a) claims and page 5, lines 17-34) a method as defined in claims 4 and 5 and also the obtained subtrate as defined in claims 1-3 of the present application. Therefore, the application does not meet the requirements of Art. 33(1) PCT, because the subject-matter of claims 1-5 is not new in the sense of Art. 33(2) PCT.
- 3. Even if the subject-matter claimed would be defined in more precise steps (as referred to in the description), such as a combined UV/ozone treatment followed by Pd/Sn seeding it would not be deemed to involve an inventive step since both steps are well known in the art (see e.g. D1, D5) and are applied for the same purpose as in the present application.
- The subject-matter claimed is industrially applicable

Re Item VI

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/JP2004/010976

Certain documents cited

Certain published documents

Application No Patent No Publication date (day/month/year)

Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

WO-A-04 033754

22.04.04

09.10.03

10.10.02

This document discloses the subject-matter of claims 1-5 of the application (see examples in the document).